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Hauthane HD-2101 DMM

DESCRIPTION: A soft, aliphatic, polyester-based, aqueous polyurethane dispersion.

SUGGESTED USES: **HD-2101 DMM** was designed primarily for use on flexible substrates as a coating, saturant or impregnant. HD-2101 DMM may also be used as a blending resin with harder polyurethane dispersions to impart flexibility without adversely effecting chemical resistance.

CHARACTERISTICS:

- Outstanding toughness and abrasion resistance
- Excellent water and chemical resistance
- Exceptionally high melting point for a medium soft polymer
- Can be crosslinked to enhance performance
- Dilution and clean-up with water
- Contains dipropylene glycol dimethyl ether co-solvent

APPLICATION: **HD-2101 DMM** can be used as a sole vehicle or blended with harder polyurethane dispersions or acrylic emulsions for spray or rotogravure applications. Rheology modifications can be made with associative thickeners for alternative application methods.

CURING: The addition of coalescing solvent is recommended to achieve optimal film formation with HD-2101 DMM. In ambient-cured systems the addition of 5-10% DPnB coalescing solvent is suggested. Less coalescing solvent is required in heat-cured systems to attain comparable film properties. Typical drying temperatures and dwell times for aqueous coatings are sufficient to produce optimal film properties. HD-2101 DMM may be crosslinked with carbodiimides, water-dispersible isocyanates or polyaziridines to further enhance performance.

PHYSICAL PROPERTIES

| | |
|------------------------|-----------------------|
| SOLIDS | 35% (±1%) |
| VISCOSITY | 50-200 cps |
| pH | 8.5-10.0 |
| DENSITY | 8.7 lbs/gal |
| SOFTENING POINT | 325°F |
| VOC CONTENT | 107 g/l (as supplied) |
| SWARD HARDNESS | 10 |

TENSILE PROPERTIES

| | |
|------------------------------|-----------|
| (TESTED AT 20 INCHES/MINUTE) | |
| ELONGATION | 500% |
| TENSILE STRENGTH | >5000 psi |
| 100% MODULUS | 700 psi |
| 200% MODULUS | 1100 psi |
| 300% MODULUS | 2000 psi |